



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Leslie L. Deck

Art Unit : 2878

Serial No. : 09/919,511

Examiner : Shun K. Lee

Filed : July 31, 2001

Title : FREQUENCY TRANSFORM PHASE SHIFTING INTERFEROMETRY

Commissioner for Patents
Washington, D.C. 20231

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RESPONSE

In response to the action dated July 17, 2002, please amend the application as follows:

In the specification:

Please replace the paragraph beginning at page 10, line 11 with the following rewritten paragraph:

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-- During operation, light source **140** directs light **105** having an optical frequency ν to beam splitter **150**, which then directs the light to collimating lens **130** to collimate the light into a plane field. Optionally, a second beamsplitter (not shown) directs a portion of the light to an optical frequency monitor, described further below with reference to FIG. 5. Surface **121** reflects a first portion of the light **105** to form a first reference wavefront **105a**, and surfaces **102** and **103** of object **101** reflect additional portions of light to form wavefronts **105b** and **105c** respectively. Surface **111** also reflects a portion of light to form a second reference wavefront **105d**. Lenses **130** and **160** then image wavefronts **105a**, **105b**, **105c**, and **105d** onto CCD camera **170** where they form an optical interference pattern. The optical interference pattern also includes contributions

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